N61165.AR.005626
CNC CHARLESTON
5090.3a

UNDERGROUND STORAGE TANK ASSESSMENT (UST) REPORT FOR BUILDING 191 CNC CHARLESTON SC

11/08/1996

NAVFAC SOUTHERN

15405
Δ=
00936

Li 4.28.97
Lo 10.15.97

RECEIVED
APR 02 1997
Groundwater Assessment and Development Section

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Date Received
State Use Only

Submit Completed Form to:
UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston State: SC Zip Code: 29419-9010

Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

II SITE IDENTIFICATION AND LOCATION

Site I.D. #: Unregulated

Facility Name: Charleston Naval Base Complex, Bldg 191

Street Address: Second Street North

City: North Charleston, 29405-2413 County: Charleston

III CLOSURE INFORMATION

Closure Started: 31 Oct 96 Closure Completed: 8 Nov 96

Number of USTs Closed: 1, plus 1 AST

N/A	SPORTENVDETCHASN
Consultant	UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

LCDR Paul Rose
Name (Type or Print)

Signature

V. UST INFORMATION

		AST 191	UST 191NW	Tank 2	Tank 3	Tank 4
A.	Product	Fuel oil	Diesel			
B.	Capacity	550 gal.	1,500 gal.			
C.	Age	Unk.	1961			
D.	Construction Material	Steel	Steel			
E.	Month/Year of Last Use	Unk.	Unk.			
F.	Depth (ft.) To Base of Tank	-	7'			
G.	Spill Prevention Equipment Y/N	N	N			
H.	Overfill Prevention Equipment Y/N	N	N			
I.	Method of Closure Removed/Filled	R	R			
J.	Visible Corrosion or Pitting Y/N	N	Y			
K.	Visible Holes Y/N	N	N			

L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

AST 191 and UST 191NW were removed, drained, cut open at both ends, and cleaned with a steam cleaner. They were then cut up for recycling as scrap metal. (See Attachment III.)

M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

The residual fuel oil, waste water, and sludge were recycled.

N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

AST 191 was in good condition and contained no corrosion, pitting, or holes. UST 191NW had a protective coating of black pitch. It was also in good condition and contained no corrosion, pitting, or holes.

VI. PIPING INFORMATION

		AST 191	UST 191NW	Tank 3	Tank 4	Tank 5
A.	Construction Material.....	Steel	Copper & Steel			
B.	Distance from UST to Dispenser.....	4' (See note 1)	6' (See note 1)			
C.	Number of Dispensers.....	1 (See note 1)	1 (See note 1)			
D.	Type of System P/S.....	S	S			
E.	Was Piping Removed from the Ground? Y/N....	N/A	Y			
F.	Visible Corrosion or Pitting Y/N.....	N	Y			
G.	Visible Holes Y/N.....	N	N			
H.	Age.....	Unk.	1961			

Note 1: The tanks provided fuel oil and diesel fuel to Building 191.

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

AST 191's piping was entirely above ground and in good condition.

UST 191NW's steel vent and fill lines contained mild corrosion and pitting throughout their length, but no holes were found. The tank's copper supply and return lines were also in good condition; however, evidence indicates that these may not have been the original lines. A loose connection was found where the copper return line attached to the tank. The loose connection or possible replaced supply and return lines provide the best explanation for any impacted soil found at the east end of the tank excavation.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 191 was constructed in 1961. The facility served as a humidity controlled warehouse for photo-chemical and computer software supplies.

AST 191 provided fuel oil to the building's boiler for heating. UST 191NW provided diesel fuel to the building's diesel powered condenser units.

VIII. SITE CONDITIONS

		Yes	No	Unk
A.	Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map. **[UST excavation, 4' below GSL]**	X		
B.	Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) **[UST excavation, strong]**	X		
C.	Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)? UST excavation, 6' 10" below GSL, 2" deep	X		
D.	Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal: _____		*X	
E.	Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness on the site map. **[UST excavation, thin film]**	**X		

* All soil from the excavation was returned to the tank pit.

** The groundwater had a thin product film. This was collected with absorbent pads.

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type (Soil/Water)	Depth*	Date/Time of Collection	Collected By	OVA#
SPORT 0228-1	West end of tank.	Soil	7'	31 Oct 96 1300	W. Nesbit	Not Taken
SPORT 0228-2	East end of tank.	Soil	7'	31 Oct 96 1330	W. Nesbit	Not Taken
SPORT 0228-3	Beneath fill pipe joint.	Soil	2'	31 Oct 96 1359	W. Nesbit	Not Taken
SPORT 0228-4	Beneath vent pipe joint.	Soil	2'	31 Oct 96 1422	W. Nesbit	Not Taken
SPORT 0228-5	Dirt pile.	Soil	-	31 Oct 96 1451	W. Nesbit	Not Taken
SPORT 0228-6	Outside AST berm.	Soil	1' 6"	31 Oct 96 1520	W. Nesbit	Not Taken

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

After the removal of AST 191 and UST 191NW soil samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

The samples are identified as follows:

	Detachment Charleston		General Engineering Labs
Soil Sample	UST191-1	=	SPORT -0228-1
Soil Sample	UST191-2	=	SPORT -0228-2
Soil Sample	UST191-3	=	SPORT -0228-3
Soil Sample	UST191-4	=	SPORT -0228-4
Soil Sample	UST191-5	=	SPORT -0228-5
Soil Sample	UST191-6	=	SPORT -0228-6
UST/AST VOA trip blank		=	SPORT -0228-7

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted at the tank ends. UST piping soil samples were taken under the piping at the mechanical connections. .

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

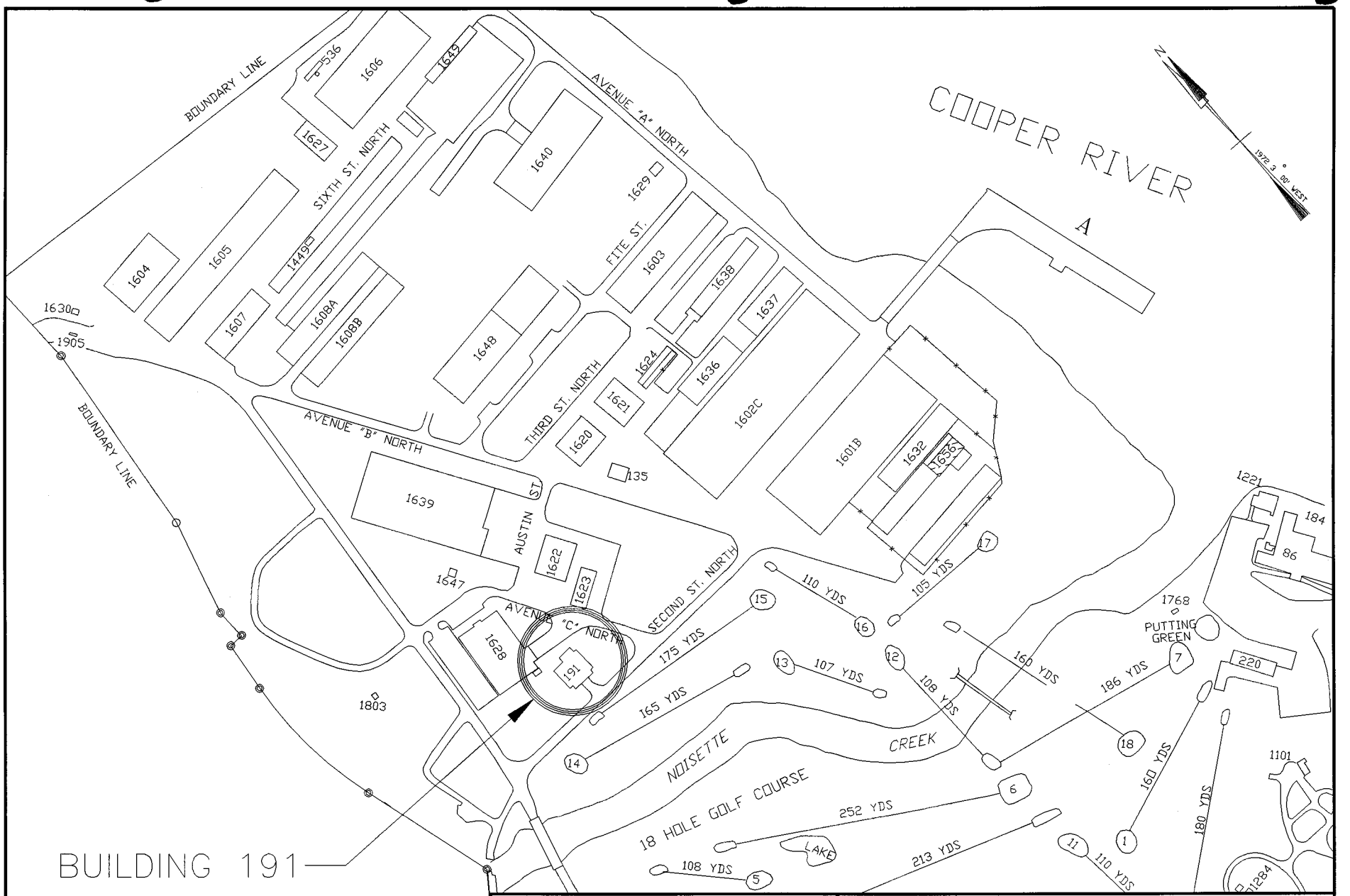
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? **[Noisette Creek 364']** If yes, indicate type of receptor, distance, and direction on site map.	X	
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system? If yes, indicate the type of structure, distance, and direction on site map.		X
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? **[Storm drain, sewer]** If yes, indicate the type of utility, distance, and direction on the site map.	X	
E.	Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

Attachment I

SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, 3, 4, and 5
Photographs 1, 2, 3, and 4

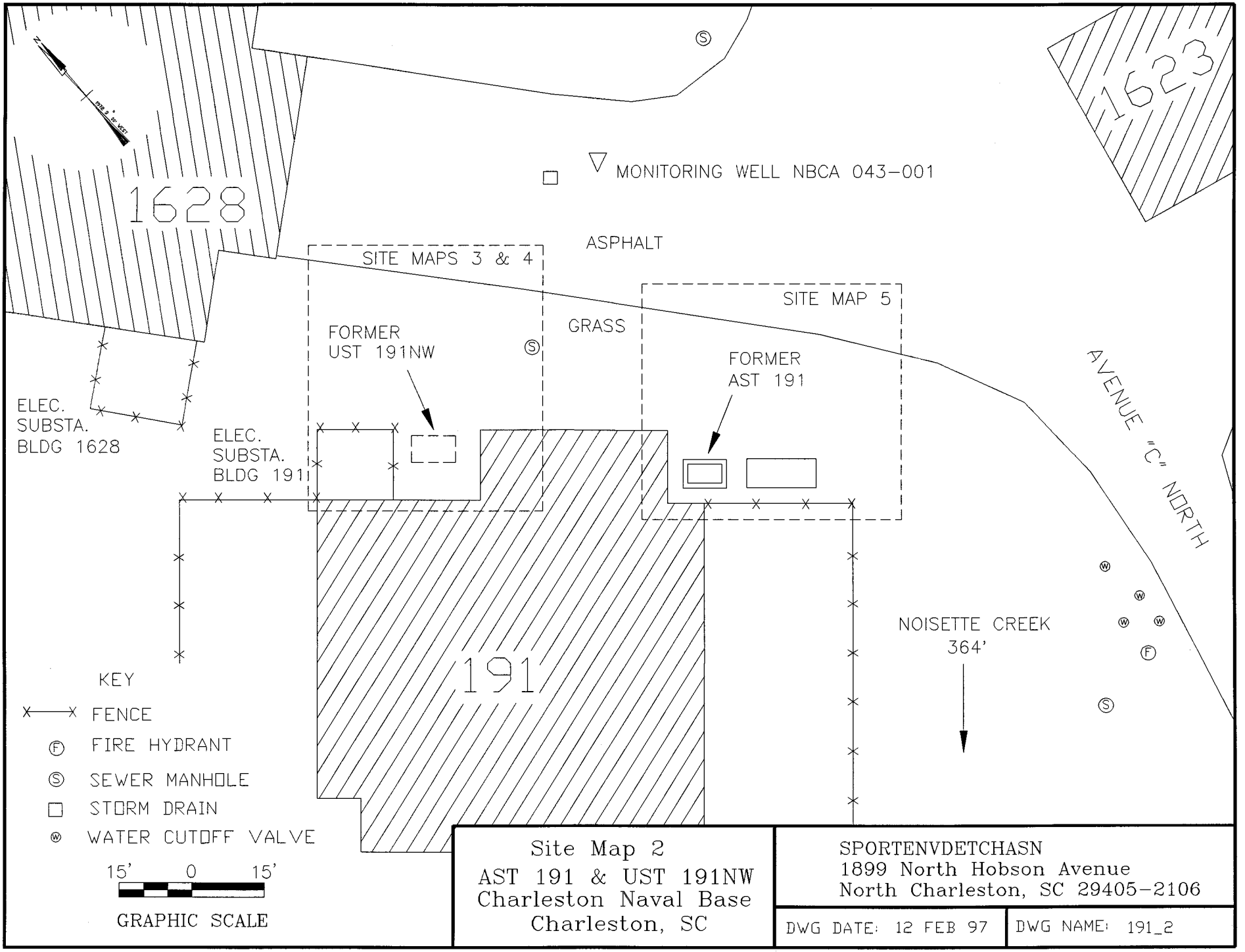


Site Map 1
AST 191 & UST 191NW
Charleston Naval Base
Charleston, SC

SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 7 FEB 97

DWG NAME: 191_1

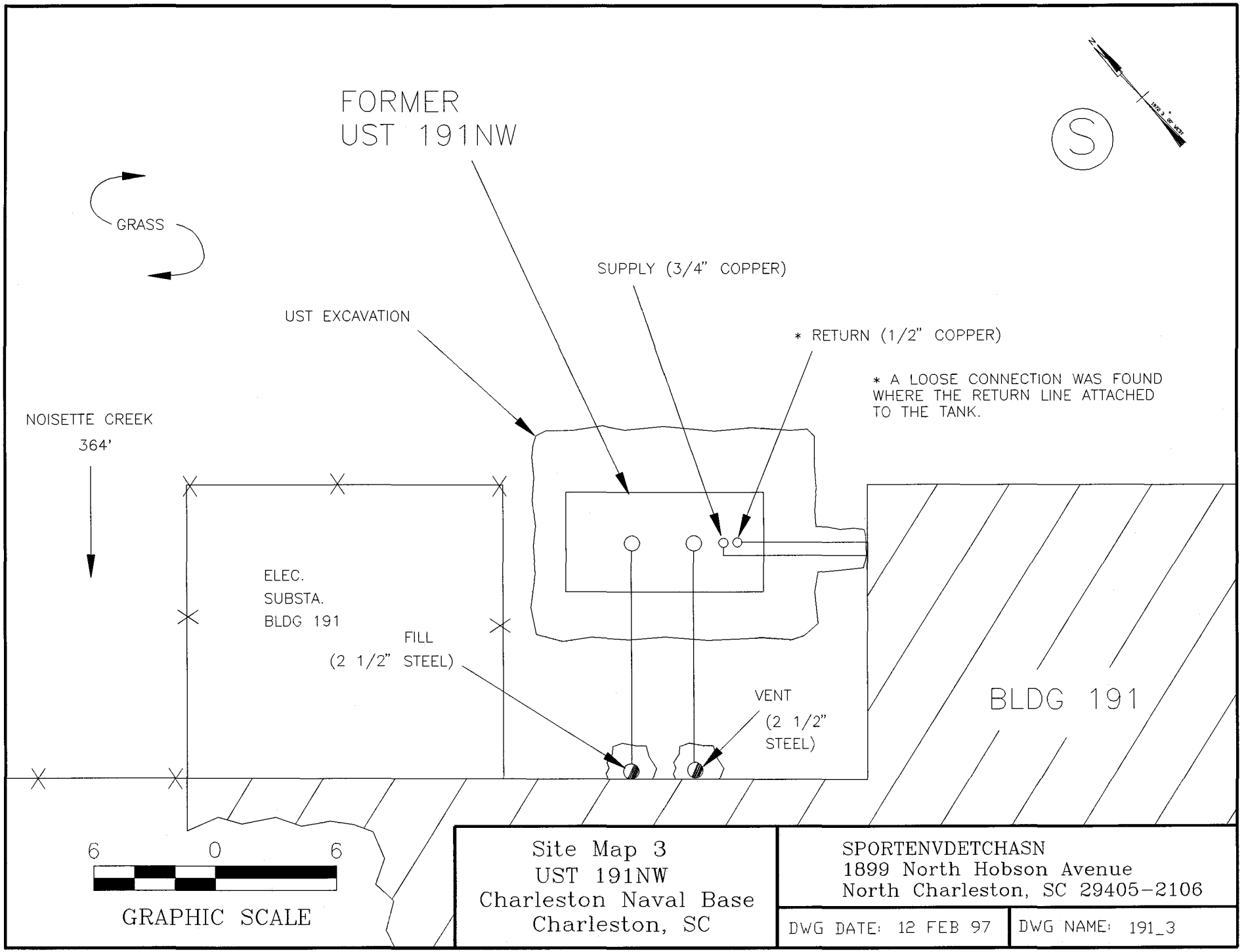


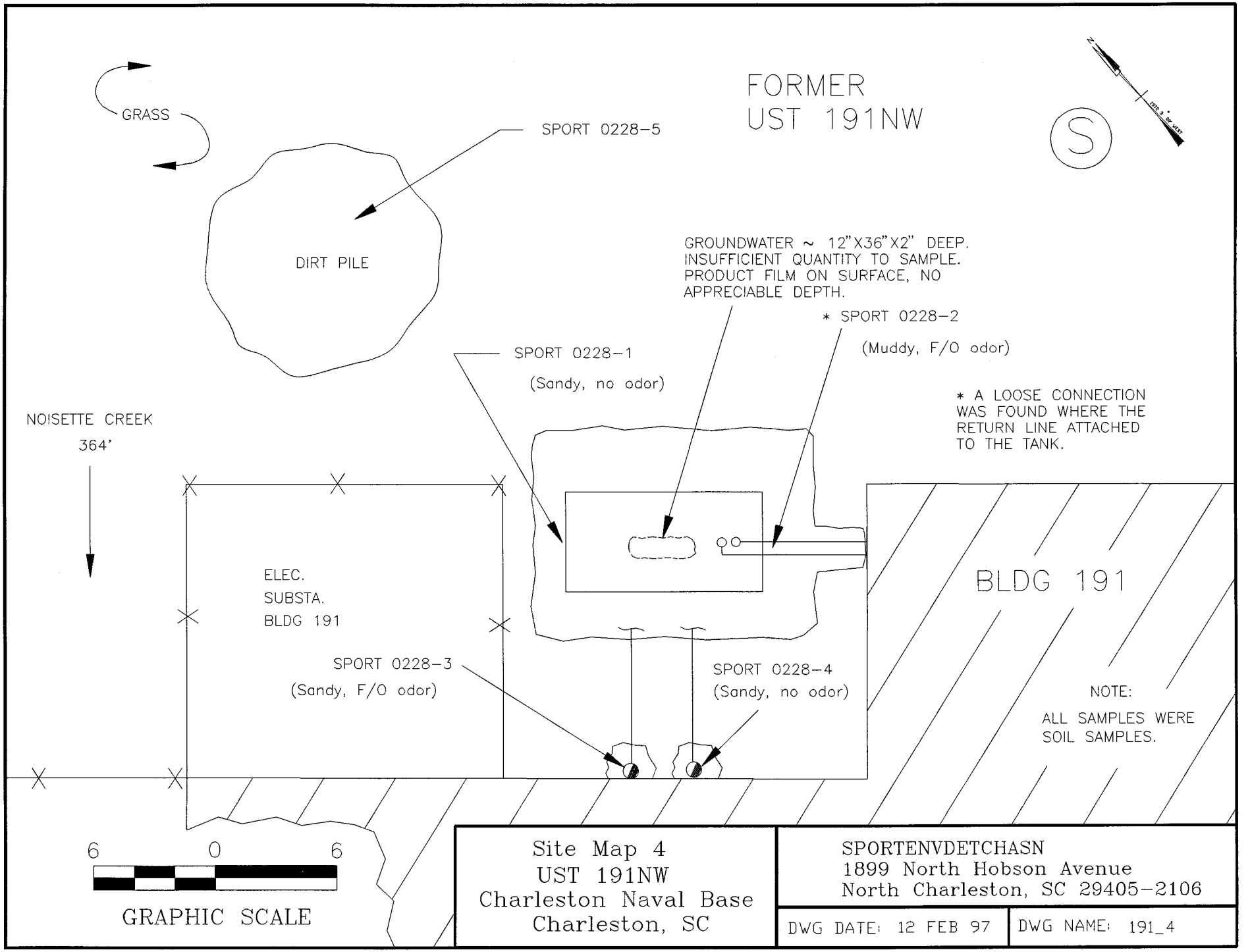
Site Map 2
AST 191 & UST 191NW
Charleston Naval Base
Charleston, SC

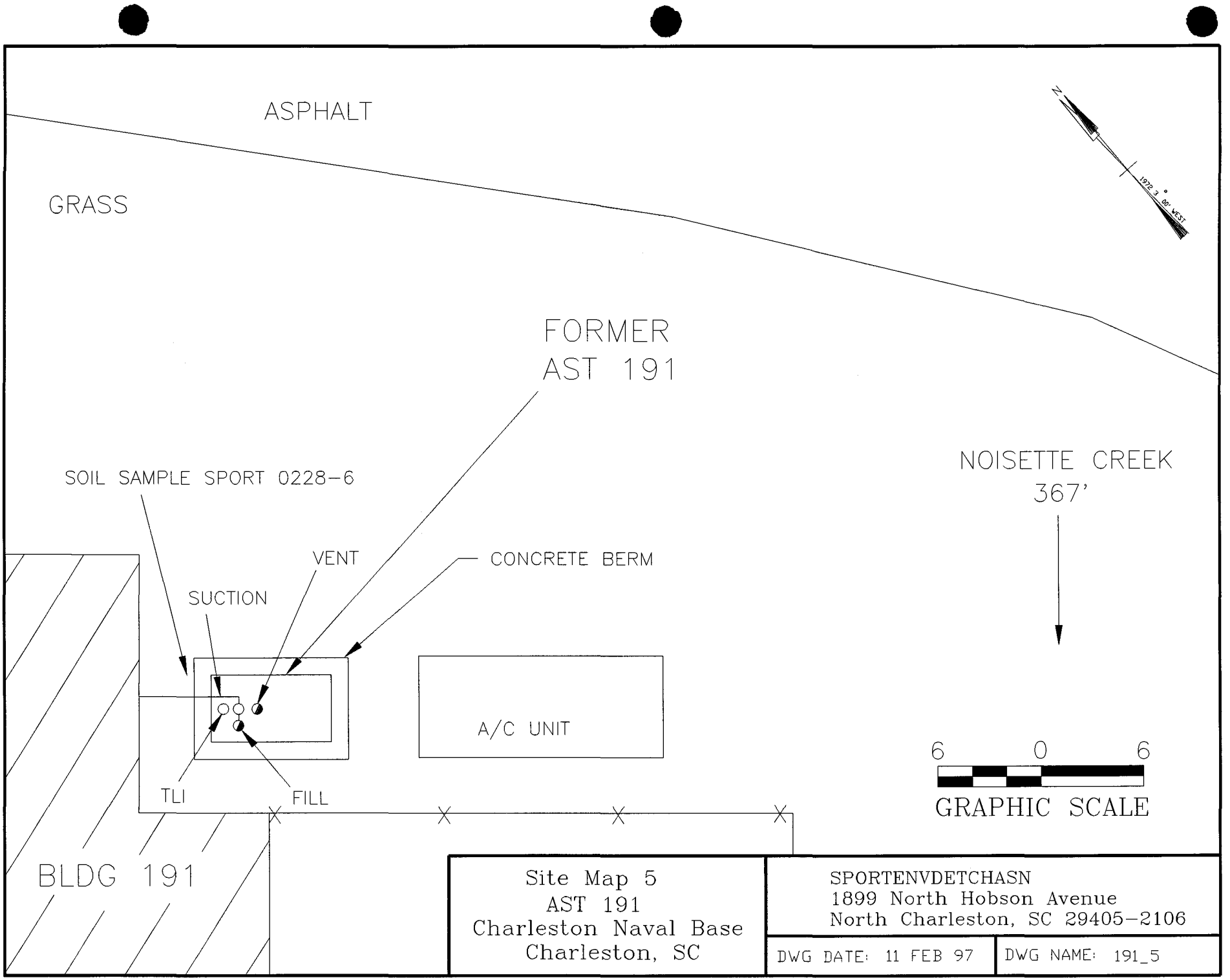
SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 12 FEB 97

DWG NAME: 191_2


FORMER
UST 191NW
S
GRASS
SUPPLY (3/4" COPPER)
UST EXCAVATION
* RETURN (1/2" COPPER)
* A LOOSE CONNECTION WAS FOUND WHERE THE RETURN LINE ATTACHED TO THE TANK.
NOISETTE CREEK
364'
ELEC.
SUBSTA.
BLDG 191
FILL
(2 1/2" STEEL)
VENT
(2 1/2" STEEL)
BLDG 191
6 0 6
GRAPHIC SCALE
Site Map 3
UST 191NW
Charleston Naval Base
Charleston, SC
SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106
DWG DATE: 12 FEB 97
DWG NAME: 191_3


FORMER
UST 191NW
GRASS
SPORT 0228-5
DIRT PILE
GROUNDWATER ~ 12"X36"X2" DEEP.
INSUFFICIENT QUANTITY TO SAMPLE.
PRODUCT FILM ON SURFACE, NO
APPRECIABLE DEPTH.
* SPORT 0228-2
(Muddy, F/O odor)
SPORT 0228-1
(Sandy, no odor)
* A LOOSE CONNECTION
WAS FOUND WHERE THE
RETURN LINE ATTACHED
TO THE TANK.
NOISETTE CREEK
364'
ELEC.
SUBSTA.
BLDG 191
BLDG 191
SPORT 0228-3
(Sandy, F/O odor)
SPORT 0228-4
(Sandy, no odor)
NOTE:
ALL SAMPLES WERE
SOIL SAMPLES.
6 0 6
GRAPHIC SCALE
Site Map 4
UST 191NW
Charleston Naval Base
Charleston, SC
SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106
DWG DATE: 12 FEB 97
DWG NAME: 191_4



Site Map 5
AST 191
Charleston Naval Base
Charleston, SC

SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 11 FEB 97

DWG NAME: 191_5

AST 191

Photo 1: AST 191 in the concrete berm prior to removal.

Photo 2: AST 191 during cutting and cleaning.

UST 191NW

Photo 3: UST 191NW fill pipe after removal.

Photo 4: UST 191NW after removal from the excavation.

Attachment II

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody

328 ~
171

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-1
Lab ID : 9611021-01
Matrix : Soil
Date Collected : 10/31/96
Date Received : 11/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	11/06/96	1949	93364	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	164	330	ug/kg	1.0	WAM	11/12/96	1441	93423	2
Acenaphthylene	U	0.00	164	330	ug/kg	1.0					
Anthracene	U	0.00	164	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	164	330	ug/kg	1.0					
Benzo(a)pyrene	U	52.3	164	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	164	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	164	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	164	330	ug/kg	1.0					
Chrysene	U	0.00	164	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	164	330	ug/kg	1.0					
Fluoranthene	U	124	164	330	ug/kg	1.0					
Fluorene	U	23.9	164	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	164	330	ug/kg	1.0					
Naphthalene	U	0.00	164	330	ug/kg	1.0					
Phenanthrene	U	0.00	164	330	ug/kg	1.0					
Pyrene	U	0.00	164	330	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds JPB 11/08/96 1100 93423 3

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9611021-01

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10512
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	88.2	(30.0 - 115.)
Nitrobenzene-d5	M610	73.4	(23.0 - 120.)
p-Terphenyl-d14	M610	91.5	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	106.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	79.2	(74.0 - 128.)
Toluene-d8	BTEX-8260	109.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	106.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	79.2	(74.0 - 128.)
Toluene-d8	NAP-8260	109.	(53.4 - 163.)

M = Method	Method-Description
M1	EPA 8260
M2	EPA 8270
M3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9611021-01

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Laboratory Certifications

STATE	GEL	EPA
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID	: SPORT0228-2
Lab ID	: 9611021-02
Matrix	: Soil
Date Collected	: 10/31/96
Date Received	: 11/01/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	20.0	40.0	ug/kg	20.	JAC	11/06/96	2020	93364	1
Ethylbenzene	U	0.00	20.0	40.0	ug/kg	20.					
Toluene	U	0.00	20.0	40.0	ug/kg	20.					
Xylenes (TOTAL)	U	0.00	20.0	40.0	ug/kg	20.					
Naphthalene	U	0.00	20.0	40.0	ug/kg	20.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene		8830	1640	3270	ug/kg	10.	WAM	11/12/96	2029	93423	2
Acenaphthylene	U	0.00	1640	3270	ug/kg	10.					
Anthracene		13700	1640	3270	ug/kg	10.					
Benzo(a)anthracene		4970	1640	3270	ug/kg	10.					
Benzo(a)pyrene	J	1960	1640	3270	ug/kg	10.					
Benzo(b)fluoranthene		3400	1640	3270	ug/kg	10.					
Benzo(ghi)perylene	U	0.00	1640	3270	ug/kg	10.					
Benzo(k)fluoranthene	U	1050	1640	3270	ug/kg	10.					
Chrysene		3760	1640	3270	ug/kg	10.					
Dibenzo(a,h)anthracene	U	0.00	1640	3270	ug/kg	10.					
Fluoranthene		23300	1640	3270	ug/kg	10.					
Fluorene		13100	1640	3270	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	0.00	1640	3270	ug/kg	10.					
Naphthalene	U	0.00	1640	3270	ug/kg	10.					
Phenanthrene		15600	1640	3270	ug/kg	10.					
Pyrene		19700	1640	3270	ug/kg	10.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds JPB 11/08/96 1100 93423 3

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(803) 556-8171 • Fax (803) 766-1178

9611021-02

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Laboratory Certifications

STATE	GEL	EPA
FL	E87156/87294	E87402/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Volatile Organics due to a high concentration of hydrocarbons. A dilution was required for Extractable Organics due to matrix interference.

As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	96.2	(30.0 - 115.)
Nitrobenzene-d5	M610	104.	(23.0 - 120.)
p-Terphenyl-d14	M610	102.	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	107.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	84.0	(74.0 - 128.)
Toluene-d8	BTEX-8260	102.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	107.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	84.0	(74.0 - 128.)
Toluene-d8	NAP-8260	102.	(53.4 - 163.)

M = Method	Method-Description
M1	EPA 8260
M2	EPA 8270
M3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GENERAL ENGINEERING LABORATORIES, INC.

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave,
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NFWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-2

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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(803) 556-8171 • Fax (803) 766-1178

9611021-02

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID	: SPORT0228-3
Lab ID	: 9611021-03
Matrix	: Soil
Date Collected	: 10/31/96
Date Received	: 11/01/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	11/06/96	2050	93364	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	1630	3260	ug/kg	10.	WAM	11/12/96	2100	93423	2
Acenaphthylene	U	0.00	1630	3260	ug/kg	10.					
Anthracene	U	0.00	1630	3260	ug/kg	10.					
Benzo(a)anthracene	U	0.00	1630	3260	ug/kg	10.					
Benzo(a)pyrene	U	0.00	1630	3260	ug/kg	10.					
Benzo(b)fluoranthene	U	0.00	1630	3260	ug/kg	10.					
Benzo(ghi)perylene	U	0.00	1630	3260	ug/kg	10.					
Benzo(k)fluoranthene	U	0.00	1630	3260	ug/kg	10.					
Chrysene	U	0.00	1630	3260	ug/kg	10.					
Dibenzo(a,h)anthracene	U	0.00	1630	3260	ug/kg	10.					
Fluoranthene	U	0.00	1630	3260	ug/kg	10.					
Fluorene	U	0.00	1630	3260	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	0.00	1630	3260	ug/kg	10.					
Naphthalene	U	0.00	1630	3260	ug/kg	10.					
Phenanthrene	U	0.00	1630	3260	ug/kg	10.					
Pyrene	U	0.00	1630	3260	ug/kg	10.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds JPB 11/08/96 1100 93423 3

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Laboratory Certifications

STATE	OEL	EPI
FL	E87156/87294	EM7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : SPORT0228-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	100.	(30.0 - 115.)
Nitrobenzene-d5	M610	76.1	(23.0 - 120.)
p-Terphenyl-d14	M610	90.1	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	116.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	81.6	(74.0 - 128.)
Toluene-d8	BTEX-8260	117.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	116.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	81.6	(74.0 - 128.)
Toluene-d8	NAP-8260	117.	(53.4 - 163.)

M = Method	Method-Description
M1	EPA 8260
M2	EPA 8270
M3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-3

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Reviewed By

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STATE	GEL	EPI
FL	E87156/87294	E87472/87958
NC	239	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-4
Lab ID : 9611021-04
Matrix : Soil
Date Collected : 10/31/96
Date Received : 11/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	11/06/96	2121	93364	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	165	330	ug/kg	1.0	WAM	11/12/96	1615	93423	2
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	165	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	165	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Chrysene	U	0.00	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	165	330	ug/kg	1.0					
Fluoranthene	U	0.00	165	330	ug/kg	1.0					
Fluorene	U	0.00	165	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	165	330	ug/kg	1.0					
Naphthalene	U	0.00	165	330	ug/kg	1.0					
Phenanthrene	U	0.00	165	330	ug/kg	1.0					
Pyrene	U	0.00	165	330	ug/kg	1.0					

The following prep procedures were performed:

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-4

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	80.2	(30.0 - 115.)
Nitrobenzene-d5	M610	70.2	(23.0 - 120.)
p-Terphenyl-d14	M610	81.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	104.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	78.4	(74.0 - 128.)
Toluene-d8	BTEX-8260	103.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	104.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	78.4	(74.0 - 128.)
Toluene-d8	NAP-8260	103.	(53.4 - 163.)

M = Method	Method-Description
M1	EPA 8260
M2	EPA 8270
M3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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STATE	GEL	EPI
FL	E87156/87284	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-5
Lab ID : 9611021-05
Matrix : Soil
Date Collected : 10/31/96
Date Received : 11/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	11/06/96	2151	93364	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	166	331	ug/kg	1.0	WAM	11/12/96	1646	93423	2
Acenaphthylene	U	0.00	166	331	ug/kg	1.0					
Anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)pyrene		556	166	331	ug/kg	1.0					
Benzo(b)fluoranthene		609	166	331	ug/kg	1.0					
Benzo(ghi)perylene	J	225	166	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Chrysene	U	0.00	166	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	69.5	166	331	ug/kg	1.0					
Fluoranthene	U	116	166	331	ug/kg	1.0					
Fluorene	U	0.00	166	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	258	166	331	ug/kg	1.0					
Naphthalene	U	0.00	166	331	ug/kg	1.0					
Phenanthrene	U	0.00	166	331	ug/kg	1.0					
Pyrene	U	26.1	166	331	ug/kg	1.0					

The following prep procedures were performed:

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : SPORT0228-5

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	83.0	(30.0 - 115.)
Nitrobenzene-d5	M610	71.2	(23.0 - 120.)
p-Terphenyl-d14	M610	85.8	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	110.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	77.6	(74.0 - 128.)
Toluene-d8	BTEX-8260	109.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	110.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	77.6	(74.0 - 128.)
Toluene-d8	NAP-8260	109.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-6
Lab ID : 9611021-06
Matrix : Soil
Date Collected : 10/31/96
Date Received : 11/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	11/07/96	1219	93364	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	162	330	ug/kg	1.0	WAM	11/12/96	1721	93423	2
Acenaphthylene	U	0.00	162	330	ug/kg	1.0					
Anthracene	U	0.00	162	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	162	330	ug/kg	1.0					
Benzo(a)pyrene	U	45.4	162	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	143	162	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	162	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	162	330	ug/kg	1.0					
Chrysene	U	0.00	162	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	162	330	ug/kg	1.0					
Fluoranthene	U	104	162	330	ug/kg	1.0					
Fluorene	U	0.00	162	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	162	330	ug/kg	1.0					
Naphthalene	U	0.00	162	330	ug/kg	1.0					
Phenanthrene	U	0.00	162	330	ug/kg	1.0					
Pyrene	U	0.00	162	330	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds JPB 11/08/96 1100 93423 3

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 13, 1996

Sample ID : SPORT0228-6

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	83.6	(30.0 - 115.)
Nitrobenzene-d5	M610	73.4	(23.0 - 120.)
p-Terphenyl-d14	M610	88.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	107.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	78.8	(74.0 - 128.)
Toluene-d8	BTEX-8260	105.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	107.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	78.8	(74.0 - 128.)
Toluene-d8	NAP-8260	105.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karon Blakeney
Reviewed By

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 11, 1996

Sample ID : SPORT0228-7
Lab ID : 9611021-07
Matrix : GroundH2O
Date Collected : 10/31/96
Date Received : 11/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/l	1.0	RMB	11/06/96	1927	93363	1
Ethylbenzene	U	0.00	1.00	2.00	ug/l	1.0					
Toluene	U	0.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/l	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	88.8	(80.0 - 128.)
Dibromofluoromethane	BTEX-8260	100.	(67.7 - 135.)
Toluene-d8	BTEX-8260	88.0	(76.8 - 122.)
Bromofluorobenzene	NAP-8260	88.8	(80.0 - 128.)
Dibromofluoromethane	NAP-8260	100.	(67.7 - 135.)
Toluene-d8	NAP-8260	88.0	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: November 11, 1996

Sample ID : SPORT0228-7

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
Reviewed By

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General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

9611021 KBB

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

CCL 24003

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify, Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTEX + NAPTHALENE	PAH	Remarks
01	SPORTØ228-1	10/31/96	13ØØ		X		X	2																X	X	UST 191-1 Soil
02	SPORTØ228-2	10/31/96	133Ø		X		X	2																X	X	UST 191-2 Soil
03	SPORTØ228-3	10/31/96	1359		X		X	2																X	X	UST 191-3 Soil
04	SPORTØ228-4	10/31/96	1422		X		X	2																X	X	UST 191-4 Soil
05	SPORTØ228-5	10/31/96	1451		X	X		2																X	X	UST 191-5 Soil (Pile)
06	SPORTØ228-6	10/31/96	152Ø		X		X	2																X	X	AST 191-1 Soil
07	SPORTØ228-7	10/31/96	1ØØØ				X	3																X		UST/AST 191 VOA TRIP BLANK

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
W. R. Huie, Jr.	11/1/96	Ø818	W. R. Huie, Jr.	W. R. Huie, Jr.	11/1/96	1412	Catharine H. L.
Catharine H. L.	11/1/96	1500	Karen Blakeney	Date: 11/1/96	Time: 1500	Remarks:	

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

AST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (803) 743-6482

TANK ID & LOCATION

191; Charleston Naval Base, Bldg 191, Second St. North, North Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

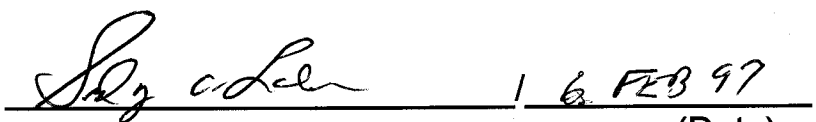
TYPE OF TANK	SIZE (GAL)
Fuel oil	550 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, cut into sections, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.



16 FEB 97
(Date)

Sidney C. Ladson

UST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (803) 743-6482

TANK ID & LOCATION

191NW; Charleston Naval Base, Bldg 191, Second St. North, N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK	SIZE (GAL)
Diesel fuel	1,500 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, cut into sections, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.

Sidney C. Ladson 16 FEB 97
(Date)

Sidney C. Ladson